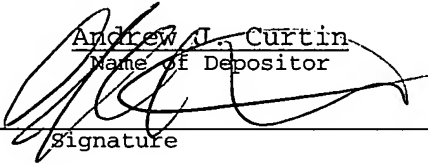


MERL-1527

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Gu et al.

Title: SCHEDULING PACKET FLOWS IN MULTI-RATE WIRELESS LOCAL  
AREA NETWORKS

EXPRESS MAIL mailing label number: <u>EV 102067201 US</u> Date of Deposit: <u>February 17, 2004</u>
I hereby certify that this correspondence is being deposited with the United States Postal Service as EXPRESS MAIL in an envelope addressed to: The Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, on:
<div style="text-align: center;"><u>Andrew L. Curtin</u> Name of Depositor</div> <div style="text-align: center;"> Signature</div>

\* \* \*

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. §1.56(a), Applicant hereby cites the following documents (copies enclosed) listed on the attached copy of Form PTO-1449.

This Information Disclosure Statement is filed in accordance with the paragraph of 37 CFR §1.97 checked below:

X 1.97(b) This Information Disclosure Statement is filed:

- (1) Within three months of the filing date of a national application; OR
- (2) Within three months of the date of entry of the national stage of an international application; OR
- (3) Before the mailing of a first Office Action on the merits.

No fee or certification is required.

   1.97(c) This Information Disclosure Statement is filed after the period specified in paragraph (b) above, but before the mailing date of either:

- (1) A Final Action under 37 CFR 1.113; OR
- (2) A Notice of Allowance under 37 CFR 1.311;

AND is accompanied by either:  
(check one)

\_\_\_\_\_ the Certification under 37 CFR  
1.97(e) as set out below; OR

\_\_\_\_\_ the fee of \$240.00 under 37 CFR  
1.17(p) .

\_\_\_ 1.97(d) This Information Disclosure Statement is filed  
after the mailing date of either:

(1) a Final action under 37 CFR 1.113; OR

(2) A Notice of Allowance under 37 CFR 1.311;

BUT before payment of the Issue Fee, AND is accompanied  
by:

(1) the Certification under 37 CFR 1.97(e) as  
set out below; AND

(2) Petition is hereby made under 37 CFR  
1.97(d) for consideration of this  
Information Disclosure Statement; AND,

(3) Authorization to charge the petition fee  
of \$130.00 as set out in 37 CFR 1.17(i) .

If this Information Disclosure Statement is being filed  
under 37 CFR 1.97(c) or 1.97(d), the undersigned Attorney hereby

certifies that:

— each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of this Statement;

or

— no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, or to the knowledge of the undersigned Attorney after making reasonable enquiry, was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing date of this Statement.

MERL-1527

Authorization is hereby given to charge the indicated fee(s)  
to Deposit Account No. 50-0749.

Please charge any additional fee due for this paper to  
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Respectfully submitted,

MITSUBISHI ELECTRIC RESEARCH LABORATORIES

By: 

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Enclosures

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Form PTO-1449 (modified 2/91)	U.S. DEPT OF COMMERCE Patent and Trademark Office	Attorney Docket Number: MERL-1527	Serial Number:
<b>INFORMATION DISCLOSURE CITATION</b>		Applicant: Gu et al.	
		Filing date: Herewith	Group art area:
		(Use several sheets if necessary)	

## U.S. PATENT DOCUMENTS

Examiner Initial	Patent number	Date	Name	Class	Subclass	Filing date if appropriate

## FOREIGN PATENT DOCUMENTS

Document number	Date	Country	Class	Subclass	Translation

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	G. Holland, N. Vaidya, and P. Bahl. A rate-adaptive MAC protocol for multi-hop wireless networks. In Proceedings of ACM MOBICOM'01, Rome, Italy, 2001.
	T. Ng, I. Stoica, and H. Zhang. Packet fair queuing algorithms for wireless networks with location-dependent errors. In Proceedings of IEEE INFOCOM'98, San Francisco, CA, May 1998.
	P. Goyal, P., Vin, H. M., and Cheng H. Start-time Fair Queuing: A Scheduling Algorithm for Integrated Services Packet Switching Networks. IEEE/ACM Transactions on Networking, Vol. 5, No. 5, pp. 690-704, October 1997.
	A. Demers, S. Keshav, and S. Shenker. Analysis and simulation of a fair queueing algorithm. In ACM SIGCOMM, pages 1-12, September 1989.
	A. Parekh. A Generalized Processor Sharing Approach to Flow Control in Integrated Services Networks. PhD Thesis, MIT Laboratory for Information and Decision Systems, Technical Report LIDS-TR-2089, 1992.

Examiner:	Date Considered:
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP .609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	